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NOTICE OF ALLOWANCE AND FEE(S) DUE

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05/08/2008

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314

EXAMINER

BARTS, SAMUEL A

ART UNIT PAPER NUMBER

1621

DATE MAILED: 05/08/2008

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	10/716,427	11/20/2003	Takashi Tatsumi	245637US0	6969

TITLE OF INVENTION: MESOPOROUS SILICA AND PROCESS FOR PRODUCING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/08/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correct maintenance fee notificate	ed below or directed oth	ng the Patent, advance on the nerwise in Block 1, by (a	rders and notification of a) specifying a new corn	maintenance fees verspondence address	vill be mailed to the curr ; and/or (b) indicating a s	ent correspondence address as separate "FEE ADDRESS" for
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OBLON, SPIV 1940 DUKE ST ALEXANDRIA	AK, MCCLELLA REET	AND MAIER & N	St ad	nereby certify that the ates Postal Service waters dressed to the Mai	tificate of Mailing or Trais his Fee(s) Transmittal is be with sufficient postage for I Stop ISSUE FEE addr TO (571) 273-2885, on the	eing deposited with the United first class mail in an envelope ess above, or being facsimile
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTORNEY DOCKET NO	CONFIRMATION NO.
10/716,427 TITLE OF INVENTION	11/20/2003 J: MESOPOROUS SILIC	CA AND PROCESS FOR	Takashi Tatsumi PRODUCING THE SA	ME	245637US0	6969
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nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/08/2008
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	7		
BARTS, S	AMUEL A	1621	556-482000	_		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
recordation as set for (A) NAME OF ASSI	th in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	T a substitute for filing a (B) RESIDENCE: (CIT	a assignment. 'Y and STATE OR (COUNTRY)	e document has been filed for group entity
4a. The following fee(s) Issue Fee Publication Fee (1)		4l permitted)	b. Payment of Fee(s): (Pl A check is enclosed Payment by credit c	ease first reapply a . ard. Form PTO-2033 by authorized to cha	ny previously paid issue for a stached. The required fee(s), any stached is attached.	fee shown above)
a. Applicant claim NOTE: The Issue Fee ar	atus (from status indicate ns SMALL ENTITY statu nd Publication Fee (if req	us. See 37 CFR 1.27.	d from anyone other than	-	LL ENTITY status. See 3' istered attorney or agent; o	7 CFR 1.27(g)(2). or the assignee or other party in
		tes Patent and Trademark		Date		
Authorized Signature					No	
This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22	tiality is governed by 35 d application form to the ions for reducing this bu. Jirginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR	on is required to obtain o 1.14. This collection is a depending upon the inc e Chief Information Offi COMPLETED FORMS	retain a benefit by stimated to take 12 ividual case. Any co cer, U.S. Patent and FO THIS ADDRES	the public which is to file minutes to complete, included omments on the amount on Trademark Office, U.S. I S. SEND TO: Commission	(and by the USPTO to process) ading gathering, preparing, and f time you require to complete Department of Commerce, P.O. ner for Patents, P.O. Box 1450,

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10/716,427	11/20/2003	Takashi Tatsumi	245637US0	6969	
22850 7:	22850 7590 05/08/2008		EXAMINER		
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.			BARTS, S.	AMUEL A	
1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER		
		1621			
		DATE MAILED: 05/08/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 463 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 463 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/716,427	TATSUMI ET AL.
Notice of Allowability	Examiner	Art Unit
	Samuel A. Barts	1621
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this application or other appropriate communication (IGHTS. This application is subject	oplication. If not included in will be mailed in due course. THIS
1. This communication is responsive to RCE filed 4/16/08.		
2. ☑ The allowed claim(s) is/are <u>8-16</u> .		
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		
2. Certified copies of the priority documents have	e been received in Application No	
3. ☐ Copies of the certified copies of the priority do		
International Bureau (PCT Rule 17.2(a)).		•
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv		
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review(PTC	0-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	<u>.</u>	
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	's Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal	Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summar	y (PTO-413),
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7. ⊠ Examiner's Amend	ate Iment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🗌 Examiner's Statem	nent of Reasons for Allowance
of Biological Material	9.	

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: applicant has found a patentable process for making mesoporous silica complex. The newly submitted claims are commensurate in scope with the unexpected results supported by the declaration filed 1/15/18. The Yokoi Declaration represents an unexpected result in that the combination of (A) an anionic surfactant, (B) silicate monomer, and (C) basic silane provides particularly sharp powder X-ray peaks for each of the complex, the outer shell, and the porous silica as compared to the combination of (1) a cationic surfactant, (2) silicate monomer, and (3) basic silane (representative of the cited art). Moreover the claimed combination resulted in no precipitate formation. This result is not disclosed, suggested, or expected from the art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel A. Barts whose telephone number is 571-272-2870. The examiner can normally be reached on 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Samuel A Barts/ Primary Examiner Art Unit 1621

SB